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09/915,404	07/27/2001	Pierre Sauvage	50002136-2	7097
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John W. Ryan			TANG, KENNETH	
c/o Wilmer, Cu 2445 M Street,	tler & Pickering N W		ART UNIT	PAPER NUMBER
Washington, DC 20037-1420			2127	
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Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)
	09/915,404	SAUVAGE, PIERRE
Office Action Summary	Examiner	Art Unit
	Kenneth Tang	2127
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro by cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. JED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 25 M 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under M	s action is non-final. nce except for formal matters, p	
Disposition of Claims		
4) Claim(s) 1-6 and 8-14 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 8-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is a	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicative documents have been rece au (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 7/27/01.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	

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DETAILED ACTION

1. Claims 1-6, and 8-14 are presented for examination. Claim 7 has been omitted by the Applicant.

Claim Objections

2. Claim 7 is missing or claims 8-14 have been misnumbered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:
 - a. In claims 1 and 9, "storage facilities" is indefinite because it is not made explicitly clear whether this term refers to the library (Fig. 1, 7) or the shared memory (Fig. 1, 9 and 11) or both, or neither.
 - b. In claims 1 and 9, "allowed work unit rate" is indefinite because it is not made explicitly clear in the claim language what this "allowed work unit rate" allows for and it is not clear what the rate consists of.
 - c. In claims 2-3 and 11-12, "repeatedly" is indefinite because it is not made explicitly clear in the claim language how often is repeatedly or whether this refers to dynamically.

- d. In claim 9, "the mechanism" is indefinite because it is not made explicitly clear in the claim language what the mechanism is referring to.
- Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are:
 - a. In claim 1, there is no structural relationship established between the "storage facilities that do not rely on the functioning of processes" (line 5) and the "controlling the use of resources" (line 11).
 - b. In claim 1, there is no structural relationship established between the "allowed work unit rate" (line 8) and the "at least one parameter" (line 9). If the parameters are indeed for the allowed work unit rate, it is not made explicitly clear in the claim language whether there is at least one allowed work unit rate.
 - c. Claim 9 is rejected for the same reasons as stated in the rejection of claim 1 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 2. Claims 1-6, and 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman et al. (hereinafter Freeman) (US 6,785,726 B1) in view of Chintalapati et al. (hereinafter Chintalapati) (US 6,457,063 B1).
- 3. As to claim 1, Freeman teaches a method for controlling the use of a resource by at least one process in a data processing system with storage facilities that do not rely on the functioning of processes that use the mechanism (col. 41, lines 32-55, col. 45, lines 9-33), comprising the steps of:

providing a licence controller (license management subsystem 1110) (col. 45, line 28); communicating an allowed work unit rate (license management subsystem 1110 uses that information, together with the information indicating the total number of available pooled licenses it calculated at initialization to determine if a pooled license is available) (col. 45, lines 28-32, col. 41, lines 31-35) for the resource between the at least one process and the licence controller by storing at least one parameter in the storage facilities (col. 41, lines 32-55, col. 45, lines 9-33); and, in the at least one process, controlling the use of the resource by the process according to the parameter (col. 45, lines 28-42).

Freeman fails to explicitly teach having an inter-process communication mechanism. However, Chintalapati teaches dynamically controlling resources based on parameters with inter-process communication (col. 11, lines 64-67, col. 12, lines 1-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include dynamically controlling resources based on parameters with inter-process communication to the existing

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system of Freeman because it would increase the efficiency of control operations and improve the performance of computer systems by reducing the amount of time that services to resources are unavailable because of administrative functions (col. 2, lines 39-41 and 57-63).

- 4. As to claim 2, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Chintalapati teaches dynamically (repeatedly updating) controlling resources with interprocess communication (col. 11, lines 64-67, col. 12, lines 1-20).
- 5. As to claim 3, Chintalapati teaches wherein the step of communicating comprises having a process repeatedly read from its inter-process communication the parameter (col. 11, lines 64-67, col. 12, lines 1-20).
- 6. As to claim 4, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Freeman teaches having the licence controller read the actual use of the resource by the process (col. 41, lines 32-55, col. 45, lines 9-33).
- 7. As to claim 5, Freeman teaches wherein the step of controlling comprises, for the process, adapting (dynamic) its operation to the allowed work unit rate for the process (col. 41, lines 32-55, col. 45, lines 9-33).
- 8. As to claim 6, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Freeman teaches wherein the processes comprise a plurality of identical processes, and

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wherein the step of communicating comprises having the licence controller update the said identical processes while sharing use of the resource between said identical processes (col. 41, lines 33-55).

- As to claim 8, Chintalapati teaches dynamically controlling resources with an interprocess communication mechanism but Freeman and Chintalapati fails to explicitly teach teaches wherein the processing system is a multiprocessing system. However, "Official Notice" is taken that both the concept and advantages of providing that an inter-process communication system being a multiprocessing system is well known and expected in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a multiprocessing system to the existing system because an inter-processing communication could not work without a multiprocessing system.
- 10. As to claim 9, it is rejected for the same reasons as stated in the rejection of claim 1.
- 11. As to claim 10, it is rejected for the same reasons as stated in the rejection of claim 1.
- 12. As to claim 11, it is rejected for the same reasons as stated in the rejection of claim 2.
- 13. As to claim 12, it is rejected for the same reasons as stated in the rejection of claim 3.

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14. As to claim 13, it is rejected for the same reasons as stated in the rejection of claim 6.

15. As to claim 14, it is rejected for the same reasons as stated in the rejection of claim 8.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt 9/22/04

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